

CLAIMS

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11. Ring filter made of star-shaped folded filtering material and a closure molded onto one of its two front sides as a closed end disk having a plate-shaped insert, which forms a central region of the closure lying radially inside the filtering material, exclusively made of a material different from the other closure material, with a radially permeable ring frame, which extends approximately over the entire axial length of the ring filter, adjoining the filtering material radially on the inside,

characterized by the features,

- the plate-shaped insert (6) and the tubular frame (2) are fixed axially relative to one another by mutual contact,
- on its end opposite the closed end of the ring filter, the tubular frame (2) has a ring shoulder (11) which axially receives the front side of the filtering material,
- the closure material (5) is a foamed plastic.

12. Ring filter according to claim 11,

characterized in that

the closure material (5) is a polyurethane foam.

13. Ring filter according to claim 11,

characterized in that

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the plate-shaped insert (6) is interlocked with the tubular frame (2).

14. Ring filter according to claim 11,

characterized by the features

- the plate-shaped insert (6) is a circular disk having an outer diameter smaller than the inner diameter of the filtering material,
- the radial outside of the plate-shaped insert (6) extends axially into the region of the filtering material (1),
- when it is connected with the tubular frame (2), the axial distance ranges of the plate-shaped insert (6) distributed around the circumference are approximately uniform relative to the tubular frame (2).

15. Ring filter according to claim 11,

characterized in that

the plate-shaped insert (6) has a ring collar (12) projecting in the direction of the tubular frame (2) radially outward relative to its position to be assumed on the tubular frame (2).

16. Ring filter according to claim 11,

characterized in that

the plate-shaped insert (6) has radially projecting fingers (14) radially outside for an axial stop on the filtering material (1).

Comments
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17. Ring filter according to claim 11,

characterized in that

the fingers (14) are located in the lower floor region and have an extremely small axial dimension relative to the height of the radial outer surface of the plate-shaped insert (6).

18. Ring filter according to claim 11,

characterized in that

axial supports (10) are provided on the ring collar (12) for an axial stop on the tubular frame (2).

19. Ring filter according to claim 11,

characterized in that

the plate-shaped insert (6) is provided with radially elastic flexible tongues (8), projecting axially from this insert (6) in the direction of the tubular frame (2), to achieve an interlocking connection with the tubular frame (2), with the flexible tongues being implemented as barbs (9) on their free end for axial fixing on the tubular frame (2).